

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 April 2004 (01.04.2004)

PCT

(10) International Publication Number
WO 2004/026178 A3

(51) International Patent Classification⁷: **A61F 17/12**,
A61B 17/00, 19/00, B29C 67/00, A61B 5/105, G06F
19/00, G06T 17/00

(21) International Application Number:
PCT/GB2003/004135

(22) International Filing Date:
18 September 2003 (18.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0221781.8 19 September 2002 (19.09.2002) GB
0308517.2 14 April 2003 (14.04.2003) GB

(71) Applicant (for all designated States except US): **EXS-
TENT LIMITED** [GB/GB]; Royal Brompton Hospital,
Sydney Street, London SW3 6NP (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GOLESWORTHY,**

Tallesin, John [GB/GB]; 20 King George Close, Charl-
ton Park, Cheltenham, Gloucestershire GL53 7RW (GB).
LAMPERTH, Michael, Ulrich [CH/GB]; 11 Willowmead
Close, Goldsworth Park, Woking, Surrey GU21 3DN (GB).

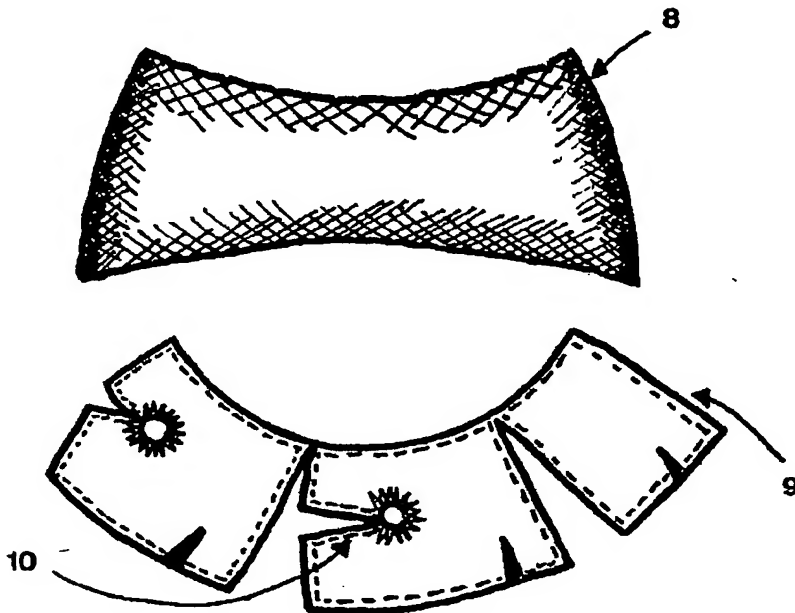
(74) Agent: **BUTLER, Lance;** Barker Brettell, 10-12 Priests
Bridge, London SW15 5JE (GB).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **EXTERNAL STENT**



(57) **Abstract:** A stent is provided for external application to an artery in which an aneurysm has occurred or is about to occur to provide support thereto, the stent being of bespoke character by virtue of its creation to conform morphologically to the actual contour of the artery captured using for example MRI, CAD and RP.

BEST AVAILABLE COPY



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

24 June 2004